

CLAIMS

1. A refrigerator including a refrigerating chamber formed at a relatively upper portion of a refrigerator body and a freezing chamber formed at a relatively lower portion of the refrigerator body, comprising:

an ice-making chamber partitioned in the refrigerating chamber by means of insulating walls, and including an icemaker for making ice and an ice storage for storing the ice made in the icemaker;

10 one or more heat exchangers serving as components of a heat exchange cycle for generating cold air to regulate temperatures in the refrigerating and freezing chambers; and

a dispenser communicating with the ice storage and installed on a door.

2. The refrigerator as claimed in claim 1, wherein a first heat exchanger is provided in the ice-making chamber and a second heat exchanger is provided in the freezing chamber.

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3. The refrigerator as claimed in claim 2, wherein the second heat exchanger is provided in a heat exchange chamber separately partitioned at a rear portion of the freezing chamber and communicates with the freezing and refrigerating chambers.

20 4. The refrigerator as claimed in claim 3, wherein a blow fan for sending the cold air generated in the second heat exchanger to the freezing and refrigerating chambers is further provided in the heat exchange chamber.

25 5. The refrigerator as claimed in claim 1, wherein the ice-making chamber is detachably installed in the refrigerating chamber.

6. The refrigerator as claimed in claim 1, wherein the refrigerating chamber is opened and closed by a pair of doors that are pivotally supported on hinges provided at upper and lower ends of both lateral sides of the refrigerator body.

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7. The refrigerator as claimed in claim 6, wherein the ice-making chamber is provided at one side of the door.

8. The refrigerator as claimed in claim 6, wherein the doors of the refrigerating chamber have 5 widths different from each other.

9. The refrigerator as claimed in any one of claims 6 to 8, wherein gaskets are provided at free tip ends of the doors of the refrigerating chamber such that they are brought into close contact with each other when the doors are closed.

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10. The refrigerator as claimed in claim 1, wherein the dispenser provided on a front surface of the door of the refrigerating chamber is supplied with water from a water tank installed in the refrigerating chamber.

15 11. The refrigerator as claimed in claim 10, wherein the water tank is installed at an inner side of the refrigerator body or the door of the refrigerating chamber.

12. The refrigerator as claimed in claim 11, wherein the water supplied from an external water source is delivered into the water tank and the icemaker of the ice-making chamber through a filter, 20 and tubes for feeding the water and valves for regulating flow of the water are provided between the water source and the filter, between the filter and the water tank, and between the filter and the icemaker.

13. A refrigerator, comprising:

25 a refrigerator body including components of a heat exchange cycle;
a refrigerating chamber formed at a relatively upper portion of the refrigerator body;
a freezing chamber formed at a relatively lower portion of the refrigerator body;
a pair of doors connected at both lateral ends of the refrigerator body corresponding to the refrigerating chamber for opening and closing the refrigerating chamber;
30 a door for selectively opening and closing a front face of the freezing chamber; and

storage units for storing articles therein, said storage units being provided in the refrigerating chamber and having the same widths as the width of doors of the refrigerating chamber.

5 14. The refrigerator as claimed in claim 13, wherein the pair of doors of the refrigerating chamber have the same widths as each other, and gaskets are provided on surfaces of opposite free ends of the doors such that they are brought into close contact with each other.

10 15. The refrigerator as claimed in claim 13, wherein the pair of doors of the refrigerating chamber have the different widths from each other, and gaskets are provided on surfaces of opposite free ends of the doors such that they are brought into close contact with each other.

15 16. The refrigerator as claimed in claim 13, wherein an ice-making chamber, which includes an icemaker for making ice and an ice storage for storing the ice made in the icemaker and is partitioned as an individual space by means of insulating walls, is further provided in the refrigerating chamber.

17. The refrigerator as claimed in claim 16, wherein the ice-making chamber is detachably installed in the refrigerating chamber.

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18. The refrigerator as claimed in claim 13, wherein a dispenser is further provided on a front surface of the door of the refrigerating chamber and is supplied with water from a water tank installed in the refrigerating chamber.

25 19. The refrigerator as claimed in claim 18, wherein the water tank is installed at an inner side of the refrigerator body or the door of the refrigerating chamber.

20. The refrigerator as claimed in claim 19, wherein the water supplied from an external water source is delivered into the water tank and the icemaker of the ice-making chamber through a filter, 30 and tubes for feeding the water and valves for regulating flow of the water are provided between

the water source and the filter, between the filter and the water tank, and between the filter and the icemaker.

21. The refrigerator as claimed in claim 13, wherein the door of the freezing chamber is

5 opened and closes in the same manner as a drawer.

22. A refrigerator, comprising:

a refrigerator body including components of a heat exchange cycle;

a refrigerating chamber formed at a relatively upper portion of the refrigerator body;

10 a freezing chamber formed at a relatively lower portion of the refrigerator body;

a pair of doors connected at both lateral ends of the refrigerator body corresponding to the refrigerating chamber for opening and closing the refrigerating chamber;

a door for selectively opening and closing a front face of the freezing chamber;

an ice-making chamber partitioned as an individual space within the refrigerating chamber

15 by means of insulating walls and including an icemaker for making ice and an ice storage for storing the ice made in the icemaker;

a first heat exchanger for generating cold air to regulate temperature in the ice-making chamber; and

20 a second heat exchanger for generating cold air to regulate temperatures in the freezing and refrigerating chambers,

wherein the first and second heat exchangers are components of the heat exchange cycle.

23. The refrigerator as claimed in claim 22, where the pair of doors of the refrigerating

chamber have the same widths as each other, gaskets are provided on surfaces of opposite free ends

25 of the doors such that they are brought into close contact with each other, and storage units for storing articles therein are provided in the refrigerating chamber such that they have the same widths as the width of doors of the refrigerating chamber.

24. The refrigerator as claimed in claim 22, wherein the pair of doors of the refrigerating

30 chamber have the different widths from each other, gaskets are provided on surfaces of opposite

free ends of the doors such that they are brought into close contact with each other, and storage units for storing articles therein are provided in the refrigerating chamber such that they have the same widths as the width of doors of the refrigerating chamber.

5 25. The refrigerator as claimed in claim 22, wherein a dispenser is further provided on a front surface of the door of the refrigerating chamber and is supplied with water from a water tank installed in the refrigerating chamber.

10 26. The refrigerator as claimed in claim 25, wherein the water tank is installed at an inner side 10 of the refrigerator body or the door of the refrigerating chamber.

15 27. The refrigerator as claimed in claim 25, wherein the water supplied from an external water source is delivered into the water tank and the icemaker of the ice-making chamber through a filter; tubes for feeding the water and valves for regulating flow of the water are provided between the water source and the filter, between the filter and the water tank, and between the filter and the icemaker; and the tubes for feeding the water are provided on the door and the refrigerator body corresponding to the refrigerating chamber.

20 28. A refrigerator including a refrigerating chamber formed at a relatively upper portion of a refrigerator body and a freezing chamber formed at a relatively lower portion of the refrigerator body, comprising:

an ice-making chamber installed in the refrigerating chamber and separated from the refrigerating chamber by means of insulating walls, and including an icemaker for making ice and an ice storage for storing the ice made in the icemaker;

25 a door of the refrigerating chamber for opening and closing the refrigerating chamber, said the door being formed with a dispenser installed at a front surface thereof;

a water tank installed in the refrigerating chamber for storing water supplied from a water source to the dispenser;

30 a means for feeding water supplied from the water source into the dispenser, said means being provided on the refrigerator body corresponding to the refrigerating chamber; and

a means for feeding water supplied from the water source into the icemaker, said means being provided on the refrigerator body corresponding to the refrigerating chamber.

29. The refrigerator as claimed in claim 28, wherein the means for feeding water into the
5 dispenser includes:

a filter for purifying water supplied from the water source;
a tank tube for delivering water running from the filter to the water tank;
a dispenser tube for delivering water from the water tank to the dispenser; and
valves provided between the water source and the filter and between the filter and the
10 dispenser for regulating flow of the water.

30. The refrigerator as claimed in claim 28, wherein the means for feeding water into the
icemaker includes:

a filter for purifying water supplied from the water source;
15 an icemaker tube for delivering water running from the filter to the icemaker; and
valves provided between the water source and the filter and between the filter and the
icemaker for regulating flow of the water.

31. The refrigerator as claimed in claim 28, wherein the refrigerating chamber is opened and
20 closed by at least a pair of doors of the refrigerating chamber having the same widths as each other.

32. The refrigerator as claimed in claim 28, wherein the refrigerating chamber is opened and
closed by at least a pair of doors of the refrigerating chamber having different widths from each
other.